STOP LAMP SWITCH CIRCUIT

CIRCUIT DESCRIPTION

The purpose of this circuit is to prevent the engine from stalling while driving in lock–up condition when brakes are suddenly applied.
When the brake pedal is depressed, this switch sends a signal to the ECM. Then the ECM cancels the operation of the lock–up clutch while braking is in progress.

WIRING DIAGRAM

See page 05–125.

1	READ VALUE OF DATA LIST(STP SIGNAL)

HINT:
Using the Intelligent Tester II Data List allows switch, sensor, actuator and other item values to be read without removing any parts. Reading the Data List early in troubleshooting is one way to shorten labor time.
(a) Turn the ignition switch off.
(b) Connect the Intelligent Tester II to the DLC3.
(c) Turn the ignition switch to the ON position.
(d) Turn on the tester.
(e) Select the item ”Enter / Power train / Engine and ECT / Data List”.
(f) Follow the instructions on the tester and read the Data List.
Standard:

Item	Measurement Item/ Range (display)	Normal Condition
Stop Light Switch	Stop light SW Status/ ON or OFF	• Brake Pedal is depressed: ON • Brake Pedal is released: OFF

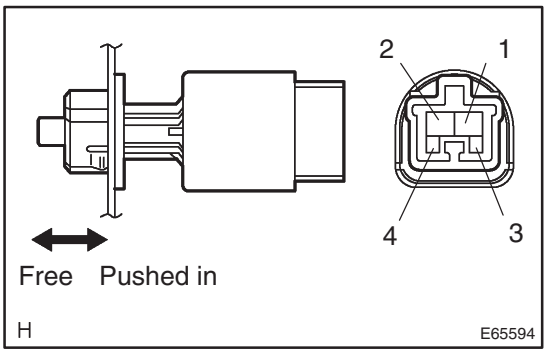
NOTICE:
In the table above, the conditions listed under ”Normal Condition” are reference conditions. Do not depend solely on these reference conditions when deciding whether a part is faulty or not.

NG → **Go to step 2**

OK

Go to step 3

2 INSPECT STOP LAMP SWITCH ASSY



(a) Remove the stop lamp switch assy.
(b) Measure the resistance according to the value(s) in the table below.

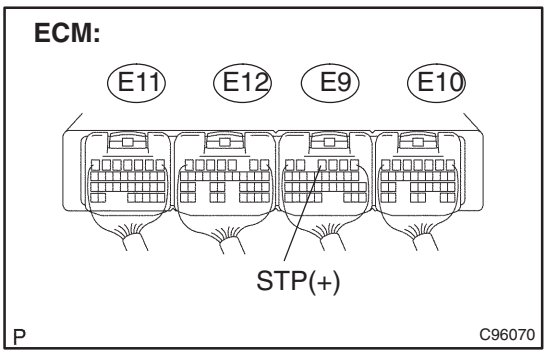
Standard:

Switch position	Tester Connection	Specified Condition
Switch pin free	1 – 2	Below 1 Ω
Switch pin pushed in	↑	10 kΩ or higher
Switch pin free	3 – 4	10 kΩ or higher
Switch pin pushed in	↑	Below 1 Ω

NG → **REPLACE STOP LAMP SWITCH ASSY**

OK

3 CHECK HARNESS AND CONNECTOR(STOP LAMP SWITCH ASSY – ECM)



(a) Install the stop lamp switch assy.
(b) Measure the voltage according to the value(s) in the table below when the brake pedal is depressed and released.

Standard:

Condition	Tester Connection	Specified Condition
Brake pedal is depressed	E9 – 4 (STP) – Body ground	10 to 14 V
Brake pedal is released	↑	Below 1 V

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (SEE PAGE 01–36)**

OK

PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (SEE PAGE 05–937)